

ABSTRACT OF THE DISCLOSURE

Provided is a digital feedback linearizing apparatus and method to linearize a power amplifier (PA), which is intended to improve the linearity of a mobile communication base station PA, and more particularly, a digital feedback linearizing apparatus and method to linearize a PA using a digital signal process (DSP) and a feedback technology, in which a predistorted signal required for linearization is generated by adding an input signal input through a predetermined path to an inverse distortion component corresponding to a distortion component of an PA and in which a linearly amplified output signal is obtained by passing the predistorted signal through the PA.